

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

RIVERBED TECHNOLOGY, INC.; DELL INC.; HEWLETT-PACKARD
ENTERPRISE CO.; HP ENTERPRISE SERVICES, LLC; TERADATA
OPERATIONS, INC.; ECHOSTAR CORPORATION; and HUGHES
NETWORK SYSTEMS, LLC,
Petitioners,

v.

REALTIME DATA LLC,
Patent Owner.

Case IPR2016-00978
Patent 8,643,513 B2

Before GEORGIANNA W. BRADEN, J. JOHN LEE, and
JASON J. CHUNG, *Administrative Patent Judges*.

BRADEN, *Administrative Patent Judge*.

DECISION
Institution of *Inter Partes* Review
37 C.F.R. § 42.108

I. INTRODUCTION

A. Background

Riverbed Technology, Inc.; Dell Inc.; Hewlett-Packard Enterprise Co.; HP Enterprise Services, LLC; Teradata Operations, Inc.; Echostar Corporation; and Hughes Network Systems, LLC (“Petitioners”)¹ filed a Petition (Paper 10, “Pet.”) to institute an *inter partes* review of claims 1–4, 6, 10–16, 18–20, and 22 of U.S. Patent No. 8,643,513 B2 (Ex. 1001, “the ’513 patent”). Realtime Data LLC, (“Patent Owner”) timely filed a Preliminary Response (Paper 18, “Prelim. Resp.”). We have jurisdiction under 35 U.S.C. § 314(a), which provides that an *inter partes* review may not be instituted “unless . . . there is a reasonable likelihood that the Petitioners would prevail with respect to at least 1 of the claims challenged in the petition.”

Upon consideration of the Petition, the Petitions’ supporting evidence, and Patent Owner’s Preliminary Response, we conclude Petitioners have established a reasonable likelihood it would prevail with respect to at least one of the challenged claims. Accordingly, for the reasons that follow, we institute an *inter partes* review.

B. Related Proceedings

Petitioners inform us of the following co-pending litigation matters that would affect or could be affected by a decision in this proceeding:

Realtime Data LLC v Actian Corporation et al., E.D. Tex. Case No. 6:2015-cv-00463, *Realtime Data LLC v Dropbox, Inc.*, E.D. Tex. Case No. 6:2015-

¹ SAP America, Inc. and Sybase, Inc. were originally included as petitioners, but their involvement as parties in this case has since been terminated. See Paper 23, 2–3.

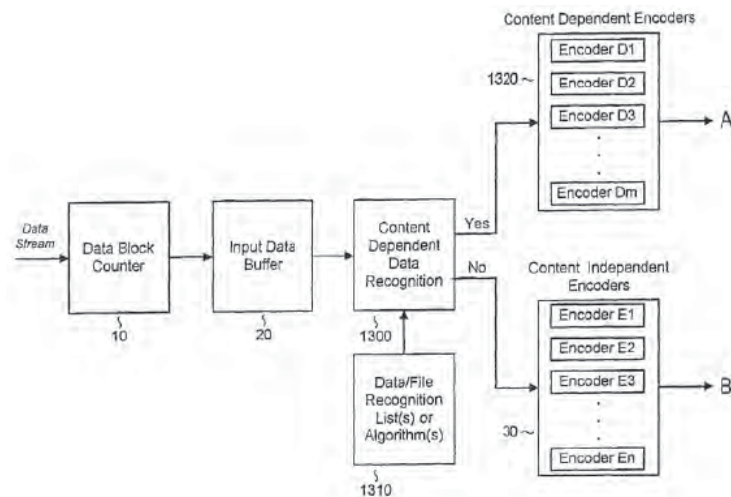
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cv-00465, *Realtime Data LLC v EchoStar Corporation et al.*, E.D. Tex. Case No. 6:2015-cv-00466, *Realtime Data LLC v Oracle America, Inc.*, E.D. Tex. Case No. 6:2015-cv-00467, *Realtime Data LLC v Riverbed Technology, Inc. et al.*, E.D. Tex. Case No. 6:2015-cv-00468, *Realtime Data LLC v SAP America, Inc. et al.*, E.D. Tex. Case No. 6:2015-cv-00469, *Realtime Data LLC v Teradata Corporation et al.*, N.D. Cal. Case No. 3:16-cv-01836, all filed on May 8, 2015, and still pending currently. Pet. 3.

Petitioners also inform us of previously filed petitions for *inter partes* reviews: IPR2016-00373 (challenging U.S. Patent No. 7,378,992 B2); IPR2016-00375 (challenging U.S. Patent No. 7,415,530 B2); IPR2016-00376 (challenging U.S. Patent No. 7,415,530 B2); and IPR2016-00377 (challenging U.S. Patent No. 9,116,908 B2). *Id.*

C. The '513 Patent

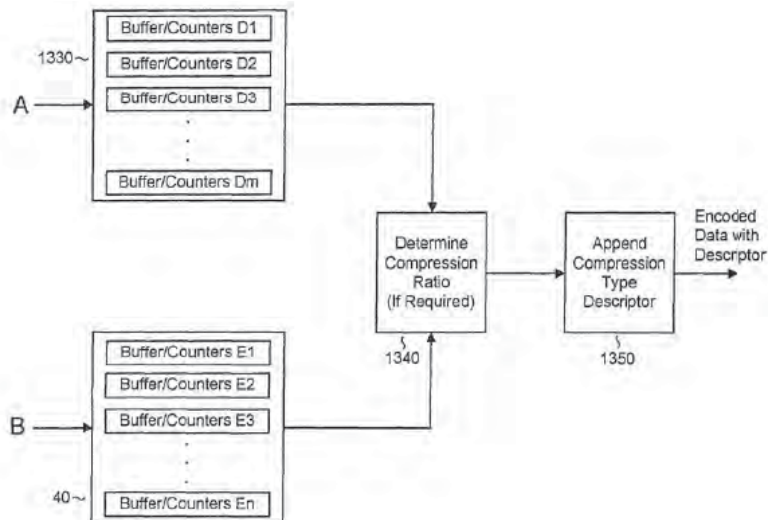
The '513 patent, titled “Data Compression Systems and Methods,” discloses systems and methods for analyzing a data block and selecting a compression method to apply to that block. Ex. 1001, Title, Abst. The '513 patent further discloses “fast and efficient data compression using a combination of content independent data compression and content dependent data compression.” *Id.* at 3:55–58. One embodiment of the '513 patent is illustrated in Figure 13A reproduced below.



As shown above in Figure 13A of the '513 patent, the system receives an input data stream of data blocks. *Id.* at 15:63–16:5. Content dependent data recognition module 1300 analyzes the incoming data stream to recognize “data types” and other parameters indicative of the “data type/content.” *Id.* at 16:15–21. If module 1300 recognizes the data type of a given data block, module 1300 routes the block to content dependent encoder module 1320 (*id.* at 16:24–26); if not, it routes the block to “content independent” (or “default”) encoder module 30 (*id.* at 3:66–67, 4:30–35, 15:56–63, 16:26–27, 18:17–25).

Content dependent encoder module 1320 comprises lossy or lossless compression encoders (*id.* at 16:28–37); content independent encoder module 30 comprises only lossless encoders (*id.* at 16:43–50). Lossy encoders provide for an “inexact” representation of the original uncompressed data (*id.* at 2:4–7); lossless encoders provide for an “exact” representation (*id.* at 2:18–20). The '513 patent teaches that “[e]ncoding techniques” may be selected “based upon their ability to effectively encode different types of input data.” *Id.* at 12:54–56.

Another embodiment of the '513 patent is illustrated in Figure 13B reproduced below.



As shown above in Figure 13B of the '513 patent, “compression ratio module 1340, operatively connected to the content dependent output builder/counters 1330 and content independent buffer/counters 40 determines the compression ratio obtained for each of the enabled encoders and[/]or E1 . . . En.” *Id.* at 17:28–42. The compression ratio is set “by taking the ratio of the size of the input data block to the size of the output data block stored in the corresponding buffer/counters BCD1, BCD2, BCD3 . . . BCDm and[/]or BCE1, BCE2, BCE3 . . . BCEn.” *Id.* at 17:39–42.

D. Challenged Claims

As noted above, Petitioners challenge claims 1–4, 6, 10–16, 18–20, and 22 of the '513 patent, of which claims 1 and 15 are the only independent claims. Claims 1 and 15 are illustrative of the challenged claims and are reproduced below (with paragraphing added):

1. A method of compressing a plurality of data blocks, comprising:

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